IN THE CLAIMS

Please amend the claims as follows:

	1. (Currently Amended) An electronic data processing circuit
	that uses current mode signalling, the circuit comprising.
	a data source circuit with an output for a logic signal;
	a data receiving circuit;
5	a communication conductor; and
	a transition coding circuit coupled between the data
ı	source circuit and the communication conductor, for driving the
	communication conductor in a first state in pulses in response to
	transitions in the logic signal and in a second state outside the
LO	pulses;
	<u>wherein</u> the data receiving circuit comprising comprises a
I	current supply and measuring circuit coupled to the communication
	conductor for supplying a current to the communication conductor to
	counteract the driving of the communication conductor, the data
L5	processing circuit being constructed so that the current that needs
	to be supplied is smaller when the communication conductor is
	driven in the second state than when the communication conductor is
	driven in the first state, the current supply and measuring circuit
	recovering the logic signal from measurements of the current
20	and wherein the current supply and measuring circuit
	defines a threshold potential of the communication conductor at
	which the current substantially starts increasing from zero, the
	transition coding circuit and the current supply and measuring

circuit being constructed so that the potential of the communication conductor remains at the threshold or on a substantially zero current side of said threshold when the transition coding circuit drives the communication conductor in the second state.

2. (Cancelled).

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- - 4. (Currently Amended)

 An—The electronic data processing circuit according to as claimed in Claim 3, comprising wherein the electronic data processing circuit further comprises a refresh transistor with having a main current channel coupled in parallel with the input of the current mirror and a control electrode coupled to an output of the current mirror, for said refresh transistor making the main current channel conductive each time when one of the pulses has been detected.

- 5. (Currently Amended)

 An The electronic data processing circuit according to as claimed in Claim 3, wherein the transition coding circuit comprises a driver circuit with having a first transistor coupled between the communication conductor and a first power supply line, and a series connection of main current channels of a second transistor and a voltage limiting transistor coupled between the communication conductor and a second power supply line, the first transistor driving the communication conductor during pulses, the voltage limiting transistor limiting a voltage level to which the driver circuit drives the communication conductor outside the pulses to a threshold level of the current mirror.
- - 7. (Currently Amended) An The electronic data processing circuit according to as claimed in Claim 3, wherein the current supply and measuring circuit is combined with a further driver, the

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further driver comprising a first transistor with a main current channel coupled between the communication conductor and a first power supply line in series with the input of the current mirror and a second transistor with a main current channel coupled between the communication conductor and a second power supply line, the data processing circuit being arranged to supply pulses to control electrodes of the first and second transistor, so that the main current channel of the first and second transistor are made conductive and non-conductive respectively during the pulses, when data to be transmitted from the data receiving circuit changes.

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